LAWRENCE LIVERMORE NATIONAL LABORATORY

Lawrence Livermore National Laboratory has a mission to ensure national security and apply science and technology to the important issues of our time.

Organization

The Laboratory is managed by Lawrence Livermore National Security, LLC for the U.S. Dept. of Energy's National Nuclear Security Administration. Lab programs are supported by a technical base of 2,802 scientists and engineers and many specialized centers of excellence.

Vital Statistics

Staff: 7,216 Budget: $1.6 billion

Research Fields/ Core Competencies

- Physics and Nuclear Materials
- Advanced Lasers and Optics
- High-Performance Scientific Computing
- Chemistry & Materials Science
- Biology & Biotechnology
- Energy & Environment
- Engineering Development

Major User Facilities

- National Ignition Facility
- Terascale Simulation Facility
- Center for Accelerator Mass Spectrometry
- Center for Applied Scientific Computing
- Center for Global Security Research
- National Atmospheric Release Advisory Ctr.
- Forensic Science Center
- Biodefense Knowledge Center

Patents (1996-2007): 1,020

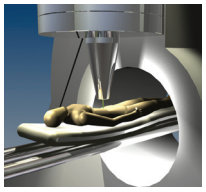
Note: Projects sponsored by the Laboratory Directed Research & Development Program have accounted for almost half of all patents issued for LLNL research over this period.

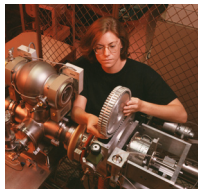
Publications

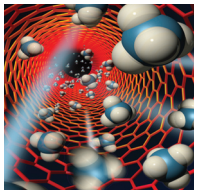
Each year, LLNL scientists and engineers publish more than 1,000 papers in peer-reviewed journals, and more than 400 papers in science conference proceedings.

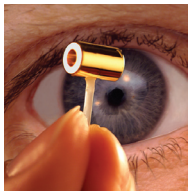
Recent Reseach Achievements

- Helped discover five new elements: 113, 114, 115, 116 and 118.
- Developed technologies to prevent and mitigate terrorist attacks
- Developed a microelectrode array for construction of an artificial retina
- Developed highest resolution global climate simulations to date
- Created a miniature glucose sensor for use in treatment of diabetes

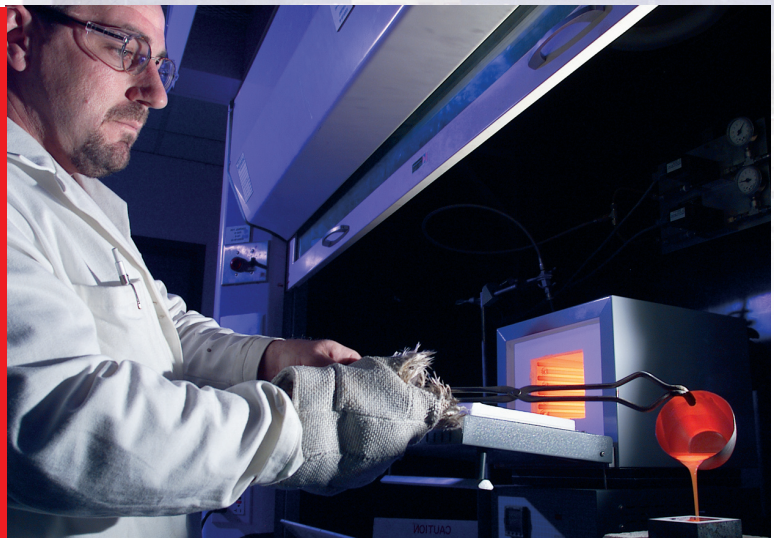








Work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344 May 2008



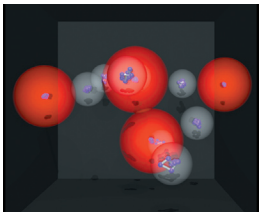
Awards

- Nobel Prize winner
- Glenn Seaborg Award winner
- Five Enrico Fermi Award winners
- Fullbright Scholar Award winner
- Twenty-five E.O. Lawrence Award winners
- Beatrice Tinsley Prize winner
- 118 R&D 100 Awards
- One Heroes of U.S. Manufacturing Award
- Twenty-seven Federal Laboratory Consortium Awards
- MacArthur Award winner
- Three Presidential Early Career Awards for Scientists and Engineers
- Two Secretary of Defense Outstanding Public Service Award winners
- Presidential Medal of Freedom

Science Education/Workforce Development

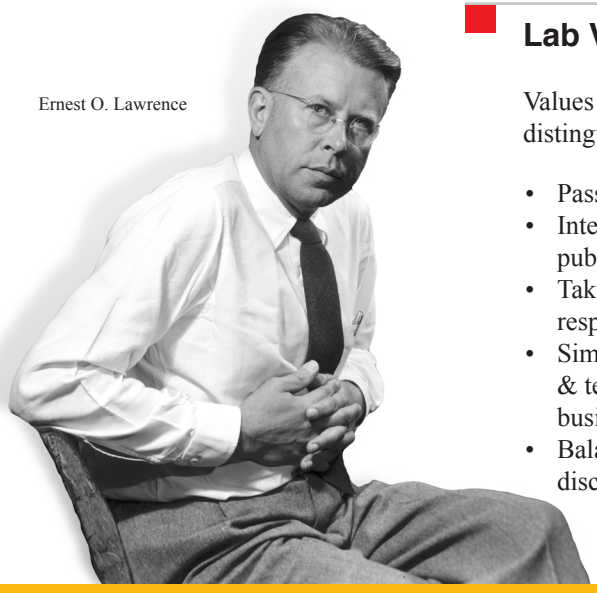
The Laboratory fosters research interactions between students/teachers and the Laboratory's scientific staff and facilities to help ensure a skilled work force to meet the science and technology challenges of the future.

There are currently 136 postdocs and 205 students working at the Laboratory. A survey by *The Scientist* magazine named Lawrence Livermore one of the nation's best workplaces for postdocs.



Benefit to Society

The Laboratory's benefit to society ranges from advances in national security (nuclear and conventional defense) and energy (fusion power), to health (medical technologies), environment (climate and global warming) and national industrial competitiveness (next-generation computer chip manufacture).



Ernest O. Lawrence

Lab Values

Values that are the hallmarks of Lawrence Livermore National Laboratory, and which distinguish the institution from others.

- Passion for Mission
- Integrity and responsible stewardship of the public trust
- Taking personal and collective responsibility for safety and security
- Simultaneous excellence in science & technology, operations, and business practices
- Balancing innovation with disciplined execution
- Teamwork while preserving individual initiative
- Intense competition of ideas with respect for individuals
- Treating each other with dignity
- A high-quality, motivated workforce with diverse ideas, skills, and backgrounds
- Rewarding and recognizing performance
- Commitment to the collective success of the Laboratory

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